

**AMENDMENTS TO THE CLAIMS**

1. (Cancelled)

2. (Cancelled)

3. (Currently Amended)      An oral phototherapy apparatus comprising:  
          a body sized and shaped so as to fit at least partially in a user's mouth;  
          at least one radiation emitter coupled to the body to irradiate a portion of the oral cavity  
with phototherapeutic radiation in at least two separate spectral bands; and  
          one or more bristles optically coupled to the at least one radiation emitter to receive and  
propagate the phototherapeutic radiation therefrom; -  
~~The apparatus of claim 1~~ wherein the emitter further comprises at least two sources of radiation  
emitting different spectral bands of radiation.

4. (Cancelled)

5. (Cancelled)

6. (Cancelled)

7. (Cancelled)

8. (Cancelled)

9. (Cancelled)

10. (Cancelled)

11. (Cancelled)

12. (Cancelled)

13. (Cancelled)

14. (Cancelled)

15. (Cancelled)

16. (Cancelled)

17. (Currently Amended)     An oral phototherapy apparatus comprising:  
\_\_\_\_\_ a body sized and shaped so as to fit at least partially in a user's mouth;  
\_\_\_\_\_ at least one radiation emitter coupled to the body to irradiate a portion of the oral cavity  
with phototherapeutic radiation in at least two separate spectral bands; and  
\_\_\_\_\_ one or more bristles optically coupled to the at least one radiation emitter to receive and  
propagate the phototherapeutic radiation therefrom;  
\_\_\_\_\_ wherein the bristles are shaped to control light distribution; and  
~~The apparatus of claim 16 wherein the bristles have at least one shape, relative to an elongated~~  
direction of the bristles, selected from the group of conical, tapered, curved and spiral shapes.

18. (Cancelled)

19. (Currently Amended)     An oral phototherapy apparatus comprising:  
\_\_\_\_\_ a body sized and shaped so as to fit at least partially in a user's mouth;  
\_\_\_\_\_ at least one radiation emitter coupled to the body to irradiate a portion of the oral cavity  
with phototherapeutic radiation in at least two separate spectral bands; and  
\_\_\_\_\_ one or more bristles optically coupled to the at least one radiation emitter to receive and  
propagate the phototherapeutic radiation therefrom;  
\_\_\_\_\_ wherein the bristles are shaped to transmit radiation; and

~~The apparatus of claim 18~~ wherein the bristles have at least one shape, relative to an elongated direction of the bristles, selected from the group of conical, tapered, curved and spiral shapes.

20. (Currently Amended)     An oral phototherapy apparatus comprising:  
\_\_\_\_\_ a body sized and shaped so as to fit at least partially in a user's mouth;  
\_\_\_\_\_ at least one radiation emitter coupled to the body to irradiate a portion of the oral cavity  
with phototherapeutic radiation in at least two separate spectral bands; and  
\_\_\_\_\_ one or more bristles optically coupled to the at least one radiation emitter to receive and  
propagate the phototherapeutic radiation therefrom;

~~The apparatus of claim 1~~ wherein the bristles further comprise at least one element selected from the group of fluorescent, luminescent or lasing elements.

21. (Cancelled)

22. (Cancelled)

23. (Cancelled)

24. (Previously Presented)     An oral phototherapy apparatus comprising:  
        a body sized and shaped so as to fit at least partially in a user's mouth;  
        at least one radiation emitter coupled to the body to irradiate a portion of the oral cavity  
with phototherapeutic radiation in at least two separate spectral bands; and  
        a motion sensor and controller which controls the radiation emitter based on signals from  
the motion sensor.

25. (Cancelled)

26. (Cancelled)

27. (Cancelled)

28. (Currently Amended)     An oral phototherapy apparatus comprising:  
\_\_\_\_\_ a body sized and shaped so as to fit at least partially in a user's mouth;  
\_\_\_\_\_ at least one radiation emitter coupled to the body to irradiate a portion of the oral cavity  
with phototherapeutic radiation in at least two separate spectral bands; and  
\_\_\_\_\_ one or more bristles optically coupled to the at least one radiation emitter to receive and  
propagate the phototherapeutic radiation therefrom;  
\_\_\_\_\_ wherein the apparatus further comprises at least one thermally conductive element for  
extracting heat from the emitter; and  
~~The apparatus of claim 27~~ wherein the thermally conductive element comprises a fluid heat transfer medium.

29. (Cancelled)

30. (Currently Amended)     An oral phototherapy apparatus comprising:  
\_\_\_\_\_ a body sized and shaped so as to fit at least partially in a user's mouth;  
\_\_\_\_\_ at least one radiation emitter coupled to the body to irradiate a portion of the oral cavity  
with phototherapeutic radiation in at least two separate spectral bands; and  
\_\_\_\_\_ one or more bristles optically coupled to the at least one radiation emitter to receive and  
propagate the phototherapeutic radiation therefrom;  
\_\_\_\_\_ wherein the apparatus further comprises at least one thermally conductive element for  
extracting heat from the emitter; and  
~~The apparatus of claim 27~~ wherein the thermally conductive element comprises a phase change material.

31. (Currently Amended)     An oral phototherapy apparatus comprising:  
\_\_\_\_\_ a body sized and shaped so as to fit at least partially in a user's mouth;  
\_\_\_\_\_ at least one radiation emitter coupled to the body to irradiate a portion of the oral cavity  
with phototherapeutic radiation in at least two separate spectral bands; and

one or more bristles optically coupled to the at least one radiation emitter to receive and propagate the phototherapeutic radiation therefrom;

wherein the apparatus further comprises at least one thermally conductive element for extracting heat from the emitter; and

~~The apparatus of claim 27~~ wherein the apparatus further comprises a heat transfer element for heating a portion of the oral cavity with waste heat from the apparatus.

32. (Cancelled)

33. (Cancelled)

34. (Cancelled)

35. (Cancelled)

36. (Cancelled)

37. (Cancelled)

38. (Cancelled)

39. (Cancelled)

40. (Cancelled)

41. (Cancelled)

42. (Cancelled)

43. (Cancelled)

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44. (Cancelled)

45. (Cancelled)

46. (Cancelled)